AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph beginning on page 4, line 9 with the following:

Periodically, a need arises to reprogram the application software in one of the ECUs 16a-16N. For the reprogramming process, the programming tool 10 contains a replacement copy of the application software and communicates it to the gateway 12 over the service communication link 14. The gateway ~~18~~ 12 then recommunicates the application software over the bus 18 to the ECU being reprogrammed. To facilitate programming, the ECU contains a flashloader firmware which receives the application software from the network bus 18 and programs the software into memory, such as flash memory, within the ECU. The flashloader firmware is executed by a microprocessor unit (MCU) within the ECU. The MCU is also in communication with the memory for reading therefrom and writing thereto.

Please replace the paragraph beginning on page 4, line 19 with the following:

Fig. 2 shows an example memory architecture of flashloader firmware residing within the memory 4 of an ECU 16N. The physical memory is divided into two sections, namely a protected memory 20 and reprogrammable memory 22. The reprogrammable memory 22 stores the application software 36 which includes a communication stack 30⁻.

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